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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,782	04/09/2004	Bernhard Forstl	078857.0158	1453
31625 7590 0772M29098 BAKER BOTTS LL.P. PATENT DEPARTMENT 98 SAN JACINTO BL-VD., SUITE 1500 AUSTIN, TX 78701-4039			EXAMINER	
			KISWANTO, NICHOLAS	
			ART UNIT	PAPER NUMBER
11001114 111 10101 1005			3664	
			MAIL DATE	DELIVERY MODE
			07/23/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/821,782 FORSTL, BERNHARD Office Action Summary Examiner Art Unit NICHOLAS KISWANTO -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 08 May 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1,3-6,9,11 and 13-17 is/are pending in the application. 4a) Of the above claim(s) ____ is/are withdrawn from consideration. 5) Claim(c) iclaro allowed

J) Clairi(s) is/are allowed.	
6)⊠ Claim(s) <u>1,3-6,9,11 and 13-17</u> is/are rejected.	
7) Claim(s) is/are objected to.	
8) Claim(s) are subject to restriction and/or election	on requirement.
Application Papers	
9) The specification is objected to by the Examiner.	
10)⊠ The drawing(s) filed on <u>09 April 2004</u> is/are: a)⊠ acc	epted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing	(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is re	equired if the drawing(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the Examine	. Note the attached Office Action or form PTO-152.
Priority under 35 U.S.C. § 119	
12) ☑ Acknowledgment is made of a claim for foreign priority a) ☑ All b) ☐ Some * c) ☐ None of: 1 ☑ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have	been received. been received in Application No uments have been received in this National Stage
* See the attached detailed Office action for a list of the	* **
	_ `-
Attachment(s)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (PTO-413) Paper No(s)/Mail Date
Notice of Distillations of Patent Drawing Never (F10-946) Notice of Drawing Never (F10-946) Not	5) Notice of Informal Patent Application 6) Other:
J.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Office Action Sui	mmary Part of Paper No./Mail Date 20080718

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1, 5, 6, 9, 11, and 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arnold (6,545,852).

As to claim 1, Arnold/852 shows a method for increasing the safety of operation of an electrical component, comprising the steps of: generating a control signal by a microcontroller (col 11, line 16) to actuate a load (col 18, line 1 - 2), amplifying the control signal (col 7, line 41), detecting actively a change in the switching state of a relevant load (col 7, line 40), and while the microcontroller is in a sleep mode (col 20, line 26) detecting a disturbance of said control signal by detecting a change in the amplified control signal through a wake- up interrupt input of said microcontroller (col 17, line 66).

However, Arnold/852 is silent as to the specifics of disturbance of the control signal is amplified such that an unwanted activation of said load is caused.

Nevertheless, it would have been obvious to one of ordinary skill in the art that amplification of signals is uniform across the system in order to provide

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correct logic levels in the next stage. Therefore a disturbance would get amplified normally like a controlled signal.

As to claim 5, Arnold/852 further shows the method according to Claim 1, wherein diagnostic means are used to determine whether a fault state can be eliminated by the microcontroller, wherein remedial action being initiated by a system control unit if the microcontroller fails (col 15, line 7 - 11).

As to claim 6, Arnold/852 shows a device for increasing the safety of operation of an electrical component in a circuit, comprising a microcontroller (col 11, line 16); an amplifier (col 7, line 41) having an input coupled to an output port of said microcontroller (Fig. 2); a load coupled to an output of said amplifier (col 18, line 1 - 2) and means for actively detecting a change of an output signal generated by said amplifier (col 7, line 40), wherein said means for actively detecting a change are coupled with an interrupt input of said microcontroller (col 17, line 66).

However, Arnold/852 is silent as to the specifics of disturbance of the control signal is amplified such that an unwanted activation of said load is caused

Nevertheless, it would have been obvious to one of ordinary skill in the art that amplification of signals is uniform across the system in order to provide correct logic levels in the next stage. Therefore a disturbance would get

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amplified normally like a controlled signal.

As to claim 9, Arnold/852 further shows the device according to Claim 6, wherein the means for actively detecting a change comprise a resistor network coupled between the output of the amplifier and a ground potential (col 14, line 23).

As to claim 11, Arnold/852 shows a device for increasing the safety of operation of an electrical component, in particular of electrical components in a vehicle, comprising: a microcontroller (col 11, line 16) for actuating a load (col 18, line 1 - 2) via an amplifier (col 7, line 41), means for detecting actively a change in the switching state of a relevant load (col 7, line 40), and wherein the microcontroller is operable to be put in a sleep mode (col 20, line 26) and while in sleep mode detects a disturbance of said control signal which causes a change in the amplified control signal through a wake-up interrupt input of said microcontroller (col 17, line 66).

However, Amold/852 is silent as to the specifics of disturbance of the control signal is amplified such that an unwanted activation of said load is caused

Nevertheless, it would have been obvious to one of ordinary skill in the art that amplification of signals is uniform across the system in order to provide correct logic levels in the next stage. Therefore a disturbance would get

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amplified normally like a controlled signal.

As to claim 15, Arnold/852 further shows the device according to Claim 11, comprising a system control unit coupled with said means for performing • diagnostic to determine whether a fault state can be eliminated by the microcontroller, wherein the system control unit is operable to initiate remedial action if the microcontroller fails (col 15, line 7 - 11).

As to claim 16, Arnold/852 further shows the method according to Claim 1, wherein to eliminate a fault state upon detection of a disturbance, the microcontroller de-activates the load (col 22, line 32).

As to claim 17, Arnold/852 further shows the method according to Claim 16, wherein upon detection of a disturbance, the microcontroller is switched from a sleep mode into an active mode and resets said control signal (col 13, line 12).

 Claims 3 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arnold, in view of Over (6,665,802).

As to claims 3 and 13, Arnold/852 discloses the claimed invention as shown above. However, it is silent as to the specifics of a non-maskable interrupt readback input.

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Ober/802 shows the commonly well-known technique of using a nonmaskable interrupt port (col 6, line 11).

It would have been obvious to one of ordinary skill in the art to provide

Arnold/852's invention with Ober/802's teaching since the use of a non-maskable
interrupt is commonly well-known in the art.

 Claims 4 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arnold, in view of Larsson et al. (2001/0052728).

As to claims 4 and 14, Arnold/852 discloses the claimed invention as shown above, including a vehicle electrical system control unit driving an on/off load (col 5, line 35). However, it silent as to the specifics of said load being a central locking motor.

Larsson/728 shows the commonly well-known method of a central locking motor being driven as an on/off load [0015].

It would have been obvious to one of ordinary skill in the art to provide the invention of Arnold/852 with the teaching of Larsson/728 since driving a central locking motor is commonly well-known in the art.

Response to Arguments

 Applicant's arguments with respect to claims 1, 3-6, 9, 11, and 13-17 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NICHOLAS KISWANTO whose telephone number is (571)270-3269. The examiner can normally be reached on Monday - Friday, 9AM - 6PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Khoi Tran can be reached on (571) 272-6919. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nicholas Kiswanto July 18, 2008

/Khoi H Tran/ Supervisory Patent Examiner, Art Unit 3664